

Do You Want Any Particular Focus for Your MEng Program?

The Master of Engineering programs in Mechanical and Aerospace Engineering will help you improve your technical skills and equip you for a career as an engineer or engineering manager. They also provide the freedom to add some specialization or focus to your program.

Requirements

Within the broad confines of program requirements, the Master of Engineering program allows students a great deal of flexibility in designing a program to suit his/her individual needs. General requirements include:

- 30 credits of graduate coursework (all but two courses must be technical in nature)
- 4-8 credits of an individual design/research project.
- 12 credits in MAE or related area (not including project or seminar courses)
- No more than 2 credits taken S/U

Designing a Focus for Your MEng Program

- The possible areas of focus in engineering are very broad; narrow down your interests to some subset of the possibilities; make a list of subtopics you would like to learn more about. In addition to deciding on the specific technologies/applications in which you are interested, you should consider where your interests lie between depth in specialized technical areas and an overall or systems view of design, modeling, and integration of complex systems. If you are interested in technical depth, look for relevant advanced courses in MAE or related fields; if you are interested in an overall systems view, some of your courses should be in systems engineering, management and business.
- Consider one of the minors popular with MAE students: Bioengineering, Engineering Management, Manufacturing, and Systems Engineering. You can fulfill the requirements for these minors within the 30 credit-hour requirement.

Steps in Developing a Specific Focus Program

1. Think about your particular interests and career aspirations and decide on the focus or emphasis your program will take
2. Look for courses available in these areas
3. Discuss your ideas about focus and classes with your MEng advisor and, possibly, faculty who teach the courses that you are considering
4. Find a relevant project. You will be provided with a list of projects faculty are offering but you may also speak with faculty doing research of interest to you who may be willing to advise you on a project not specifically listed in the project offerings.